

Claims

What is claimed is:

1. A method of communicating data stored on a first communication device to a second communication device comprising:
 - receiving data by the first communication device;
 - generating, by the first communication device, first and second dictionaries from the received data, the first dictionary being based on data received earlier than data used to generate the second dictionary, the first dictionary being provided to the second communication device; and
 - sending the second dictionary to the second communication device if the second communication device is presently connected to the first communication device by a first channel therebetween exhibiting a cost of operation less than the cost of operation of a second channel therebetween.
2. The method of claim 1 wherein the first channel is a wire line channel.
3. The method of claim 1 wherein the second channel is a wireless channel.
4. The method of claim 1 including compressing the data with the second dictionary to generate compressed data which is sent together with the second dictionary to the second communication device when the second communication device is connected to the first communication device by the first channel.

5. The method of claim 1 including compressing the data with the first dictionary to generate compressed data which is sent to the second communication device if the second communication device is presently connected to the first communication device by the second channel.
6. The method of claim 5 including scheduling transmission of the second dictionary to the second communication device at a later time when the second communication device is connected to the first communication device by the first channel if the second communication device is not presently connected to the first communication device by the first channel.
7. The method of claim 1 including determining if the quality of the first dictionary is better than the quality of second dictionary.
8. The method of claim 7 including compressing the data with the first dictionary to generate compressed data which is sent to the second communication device if the quality of the first dictionary is greater than the quality of the second dictionary and the second communication device is connected to the first communication device by the second channel.
9. The method of claim 1 wherein the first communication device is a server.
10. The method of claim 1 wherein the second communication devices is a client.
11. The method of claim 10 wherein the client is a portable communication device.
12. The method of claim 10 including maintaining first and second dictionaries for each of a plurality of second communication devices.

13. A communication system comprising:
a first communication device for receiving data; and
a second communication device connectable to the first communication device by a first channel or a second channel therebetween, the first channel exhibiting a cost of operation less than the cost of operation of the second channel;
the first communication device including first and second dictionaries which are generated in the first communication device, the first dictionary being based on data received earlier than data used to generate the second dictionary, the first dictionary being provided to the second communication device, the first communication device sending the second dictionary to the second communication device if the second communication device is presently connected to the first communication device by a first channel therebetween exhibiting a cost of operation less than the cost of operation of the second channel therebetween.
14. The communication system of claim 13 wherein the first channel is a wire line channel.
15. The communication system of claim 13 wherein the second channel is a wireless channel.
16. The communication system of claim 13 wherein the first communication device compresses the data with the second dictionary to generate compressed data which is sent together with the second dictionary to the second communication device when the second communication device is connected to the first communication device by the first channel.

17. The communication system of claim 13 wherein the first communication device compresses the data with the first dictionary to generate compressed data which is sent to the second communication device if the second communication device is presently connected to the first communication device by the second channel.

18. The communication system of claim 17 wherein the first communication device schedules transmission of the second dictionary to the second communication device at a later time when the second communication device is connected to the first communication device by the first channel if the second communication device is not presently connected to the first communication device by the first channel.

19. The communication system of claim 13 wherein the first communication system compresses the data with the first dictionary to generate compressed data which is sent to the second communication device if the quality of the first dictionary is greater than the quality of the second dictionary and the second communication device is connected to the first communication device by the second channel.

20. The communication system of claim 13 wherein the first communication device is a server.

21. The communication system of claim 13 wherein the second communication devices is a client.

22. The communication system of claim 21 wherein the client is a portable communication device.